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Planning Commission Staff Report

Meeting Date: August 12, 2019

From: Andrew Stanislav, Planner

Location: A 4.76 acre tract of land located on the south side of Old Clarkson Road

approximately 900 feet from its intersection with Baxter Road

Petition: P.Z. 07-2019 15750 Old Clarkson Rd (Kumara S. Vadivelu): A request for a zoning

map amendment from the "E-1/2AC" Estate Half Acre District to a "PUD" Planned Unit Development for a 4.76 acre tract of land located on the south side of Old Clarkson Road approximately 900 feet from its intersection with Baxter Road

(19S130015).

SUMMARY

Kumara S. Vadivelu of Azack Construction has submitted a request for a zoning map amendment from "E-1/2AC" Estate Half Acre District to a "PUD" Planned Unit Development as part of a two-step zoning process for a 4.76 acre tract of land located on the south side of Old Clarkson Road approximately 900 feet from its intersection with Baxter Road.

The first step in the process is to request a change of zoning to a conventional residential district in order to establish the



Figure 1: Subject site aerial image

development density that is being requested in conjunction with the "PUD" petition. In order to satisfy this first step, the Petitioner amended petition P.Z. 11-2018 to request a change of zoning to "E-1/2AC" Estate District concurrently with the "PUD" request.

A Public Hearing was held on June 12, 2019 for the "PUD" request, and the applicant has since made revisions in order to comply with requirements of the Unified Development Code (UDC).

HISTORY OF SUBJECT SITE

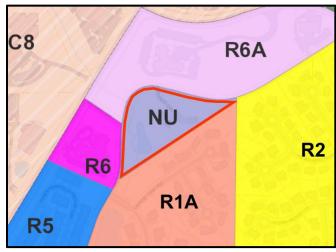
The subject site was zoned "NU" Non-Urban District by St. Louis County prior to the City's incorporation. According to St. Louis County's records, the existing single-family home on the subject site was built in 1983.

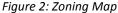
A petition was submitted in October 2018 (P.Z. 11-2018) requesting a change of zoning from the "NU" Non-Urban District to the "R-2" Residence (15,000 sq. ft.) District, and a Public Hearing was held for this on November 14, 2018. Following this hearing, the petitioner has actively pursued the project by contacting external agencies for comments as well as meeting with nearby residents of Old Clarkson Forest. On April 25, 2019, the petitioner submitted an amendment to P.Z. 11-2018 to request a change of zoning from the "NU" District to the "E-1/2AC" Estate Half Acre District in lieu of the previously requested "R-2" Residence District. This petition returned to the Planning Commission on May 13, 2019 in order to retain its "active" status in accordance with the Unified Development Code (UDC) and to provide a status update to the Commission. A new Public Hearing was also held on June 12, 2019 for the amended change of zoning request to the "E-1/2AC" District. Petition P.Z. 11-2018 remains active and serves as part of the two-step zoning process to obtain "PUD" Planned Unit Development zoning.

LAND USE AND ZONING OF SURROUNDING PROPERTIES

The land use and zoning for the properties surrounding this parcel are as follows:

Direction	Zoning	Land Use
North	"R-6A" Residence (4,000 square feet) District	Place of worship
East	"R-1A" Residence District	Single-family dwellings
South	"R-1A" Residence District	Single-family dwellings
West	"R-6" Residence (2,000 square feet) District	Senior living facility





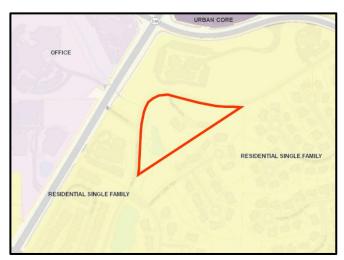


Figure 3: Future Land Use Plan

"PUD" DISTRICT REGULATIONS

The Unified Development Code Section 31-03-04.K states that "the purpose of the PUD District is to encourage flexibility in the density requirements and development standards of the zoning ordinance that

will result in exceptional design, character, and quality of new homogenous and mixed use developments; to promote the most appropriate use of land; to facilitate the provision of streets and utilities; and to preserve the natural and scenic features and open space."

The Unified Development Code requires that any zoning petition requesting a zoning map amendment to the "PUD" district meet four (4) **General Requirements** in order to fulfill the basic application requirements for a "PUD."

1. All property that is at least four (4) contiguous acres shall be eligible for the PUD District designation.

The subject site is one contiguous parcel of land comprising 4.76 acres and is eligible for the PUD District designation.

2. All property to be zoned PUD or an existing PUD Zoning District being amended shall be under single ownership, or if under multiple ownership, then by written consent of all owners who agree to be bound by the PUD District designation and regulations.

This petition is for a single parcel with one legal ownership/interest under contract.

3. The detailed standards set forth herein are minimum requirements, and it is the intent of this Section that the City of Chesterfield may impose conditions and safeguards in excess of, or in addition to, the specified minimal requirements. Satisfying the minimum standards set forth herein does not per se indicate that an application is entitled to a zoning change and notice is hereby given to that effect.

The petition meets the minimum requirements for a submittal and the Petitioner is aware that approval of an ordinance by City Council is required for a zoning map amendment. Additionally, the Petitioner is aware that requirements and conditions exceeding the minimum requirements may be imposed.

4. All utilities shall be installed underground.

All utilities will be installed underground if this request is approved.

Once it has been determined that these four General Requirements have been met, the application is accepted and the petition proceeds through the approval process.

Next, the project is reviewed against the **Minimum Design Requirements** for a PUD District. There are four (4) minimum design requirements that must be met in order for the project to qualify to ask for a change of zoning to the PUD District. These four (4) items are:

Proposal has to meet the maximum residential density determined by the existing zoning district
or by submitting an application for a change of zoning from the "NU" Non-Urban District to a
residential zoning district.

Petition P.Z. 11-2018 satisfies the requirement for a change of zoning to a residential district that ultimately establishes the maximum development density.

2. Provision of thirty (30) percent Common Open Space to be displaced throughout the site and not concentrated in one (1) area or contain only that portion of the site that would be considered undevelopable.

The most recent PUD proposal incorporates 1.47 acres of common open space, or approximately 30 percent of the total site. Proposed common ground surrounds the existing pond area and also extends to include a portion of the 30-foot wide landscape buffer strip along the Old Clarkson Forest subdivision as depicted on the Preliminary Plan.

3. Provision of perimeter buffer of at least thirty (30) feet in width.

The Preliminary Plan includes a 30-foot wide perimeter landscape buffer, including the portion of the site along Old Clarkson Road and along the southern property line abutting the Old Clarkson Forest subdivision.

Most of the proposed buffers are depicted as part of the individual lots as opposed to dedicated common ground as seen in other PUDs previously approved in the City or as required for developments zoned as an "E" Estate District. A conceptual landscape plan is also included in this submittal depicting the location of required street trees along Old Clarkson Road as well as along the proposed private street.

4. Proposed project has to be consistent with the purposes and intent of the Comprehensive Plan and the City of Chesterfield Municipal Code.

Information pertaining to the Comprehensive Plan land use designation is included in the Staff Report for P.Z. 11-2018 and the PUD purpose statement from the Unified Development Code is cited at the outset of this section.

In addition to these requirements above, the Unified Development Code lists twelve (12) **Design Features** suggested to be used by developers when applying for PUD District zoning. Section 31-03-04.K of the Unified Development Code also states the following: "Satisfaction of all or any of these design features is not mandatory, but the approval of "PUD" zoning will be predicated on the use of the below list or any other design feature deemed desirable by the City of Chesterfield. Proposed inclusion of these design features within a "PUD" can increase the flexibility of design standards and the ability of the developer to negotiate the mitigation of other requirements." Below is a list of the suggested Design Features from the City Code:

- Placement of structures on most suitable sites with consideration of maintaining existing site topography, soils, vegetation, slope, etc.;
- Preservation of natural and cultural areas, as well as the creation of open space through active and
 passive recreation areas to include greenways, landscape gardens, plazas, and walking and cycling
 trails that serve to connect significant areas and various land uses;
- Preservation of existing mature trees and trees deemed extraordinary by the City of Chesterfield Tree Specialist due to but not limited to the following: size, type, origin, grouping, or number of:
- Enhanced landscaping, deeper and opaque buffers, and increased planting along public right-ofways, open space/recreational areas, and the overall perimeter to protect and ensure compatibility with adjacent land uses;
- Utilization of mixed use buildings;
- Utilization of Traditional Neighborhood Design (TND) techniques in the layout and spatial organization of the development;
- Structures designed and constructed of an architectural vernacular that exceeds the typical building design and materials within the City of Chesterfield;
- Segregation of vehicular traffic from pedestrian/bicycle circulation networks, and other traffic mitigation measures;
- Incorporation of Transit Oriented Development (TOD) or direct access to public transportation;
- Provision of affordable housing;
- Utilization of Leadership in Energy and Environmental Design (LEED) construction practices and development standards and the proposed LEED certification of buildings and grounds by the U.S. Green Building Council within the PUD; and
- Inclusion of community facilities and the access thereto.

These desirable design features are meant to guide developers and explain the high quality standards that the City would like to attain and that are utilized to consider requests for PUD Zoning. No single proposal is expected to include each of these items; however, some of these and similar concepts should be identifiable in any PUD petition. The applicant has noted that the proposed preservation of the existing pond area and trees above the 30 percent requirement are intended to preserve the character of the area.

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ISSUES

A Public Hearing was held on June 12, 2019, and there were four speakers in opposition. Issues associated with the request were identified by the Planning Commission, and below is a summary of the issues mentioned as well as how the applicant has responded to each item:

1. <u>Tree Preservation and Mature Trees:</u> preservation of mature trees on the subject property was expressed as a concern at the Public Hearing, specifically in regard to the possibility of preserving mature trees on each of the lots proposed. The condition ratings provided on the TSD were also questioned as it classifies two of the 350 trees identified as in good condition. Verify the accuracy of the condition ratings and depiction of the existing pond size/location on the TSD, and consider preserving additional trees among each of the lots proposed.

The applicant has submitted a formal response to this issue in the form of a letter from Loomis and Associates, which is attached to this report.

2. <u>Modifications to UDC Requirements:</u> concerns were raised regarding modifications from UDC requirements in regard to subdivision design and "PUD" standards. Specifically, thirty percent (30%) common open space is required for a Planned Unit Development, and the access portion of the flag lot (Lot 1) is required to be at least forty (40) feet wide. It was also recognized at the Public Hearing that the thirty (30) foot perimeter buffer requirement was in compliance as of the most recent submittal under review by Staff. Revise the plan to comply with all UDC standards.

The applicant has revised the Preliminary Plan and is no longer requesting modifications from these UDC standards.

3. <u>Community Character:</u> the compatibility of the "E-1/2AC" Estate Half Acre District proposed in petition P.Z. 11-2018 was recognized as more compatible with the existing character of the community, noting the district's specific requirements pertaining to landscape buffers, provision for community character, and preservation of natural features. Issues were raised with petition P.Z. 07-2019 requesting the "PUD" for this site as the site design and standards proposed would not be compliant with the more favorable regulations of the "E-1/2AC" District. Explain how the proposed preliminary plan preserves the character of the community as described at the Public Hearing and address these concerns.

In the response letter provided, the applicant notes preserving the existing pond, blue line creek, and as many trees as possible as intentions of maintaining the community character.

4. Lot 5 and Overbuilding: issues were raised at the Public Hearing regarding over-building of the site, specifically in regards to Lot 5 proposed on the Preliminary Plan. The location of Lot 5 and its proximity to the neighboring residences was mentioned as not compatible with surrounding existing conditions. Describe how Lot 5 as proposed is compatible with existing development nearby.

The applicant stated that the proposed dwelling on Lot 5 is "strategically placed away from the existing subdivision houses as requested by the neighbors." The proposed 30-foot landscape buffer between Lot 5 and the Old Clarkson Forest subdivision is also noted as maintaining the existing woodland.

5. <u>Hydrology and Stormwater:</u> the local ponds and stormwater systems were discussed at the Public Hearing in terms of ensuring their capacity is maintained and that the current flow is not disrupted. Additional items may be required moving forward with this project.

The applicant acknowledges that they "have done a Hydrology Study showing very little addition of additional water flow added to the creek." Preservation of the existing pond and a requirement to install an outlet structure to control discharge were also noted as recognizing the concerns regarding stormwater.

PRELIMINARY PLAN

As required for a "PUD" Planned Unit Development, a Preliminary Plan is included for your review. As shown on the Preliminary Plan, the applicant is proposing a total of 6 lots which range in size from 21,874 square feet to 24,451 square feet. The proposed lots extend midway into the street as it is proposed as a private street with one primary access point off of Old Clarkson Road to serve the development, and most of the required landscape buffers are also within individual lots. Developments zoned as one of the straight "E" Estate Districts are not able to include the required landscape buffers or streets (public or private) as part of the individual lots.

The lots proposed on the Preliminary Plan are also irregular in shape and are generally encumbered by various easements for utilities, bioretention basins, and retaining walls that could preclude the installation of future improvements or outdoor living spaces (decks, patios, etc.) on the property, particularly off the rear of the homes. Similar encumbrances include the natural watercourse protection area and areas where the 30-foot perimeter landscape buffer are located within the boundaries of individual buildable lots that are not to be disturbed.

The applicant's narrative statement attached to this report includes additional details as well as language regarding the character and rationale for the proposed "PUD" to justify their request.

REQUEST

Staff has completed review of this petition and all agency comments have been received. Staff requests action on P.Z. 07-2019 Old Clarkson Rd (Kumara S. Vadivelu).

Attachments

- 1. Attachment A
- 2. Resident Correspondence
- 3. Petitioner's Response Letter
- 2. Narrative Statement
- 3. Preliminary Plan Packet

ATTACHMENT A

All provisions of the City of Chesterfield City Code shall apply to this development except as specifically modified herein.

I. SPECIFIC CRITERIA

A. PERMITTED USES

- 1. The uses allowed in this Planned Unit Development (PUD) District shall be:
 - a. Dwellings, Single Family Detached.

B. DENSITY REQUIREMENTS

1. The total number of single family residential units shall not exceed six (6) units.

C. DEVELOPMENT STANDARDS

- 1. Minimum lot size for this development shall be 21,780 square feet.
- 2. Maximum height of all structures shall be forty-five (45) feet.
- 3. Structure setbacks shall be as follows:
 - a. Twenty (20) feet from the right-of-way of Old Clarkson Road.
 - b. Twenty (20) feet from the front yard as measured from the private roadway easement depicted on the Preliminary Plan attached hereto as Attachment "B". Flag lots shall have a front yard setback of twenty (20) feet on the access portion and building site portion of the lot.
 - c. Fifteen (15) feet from the side yard.
 - d. Fifteen (15) feet from the rear yard.
- 4. No building or structure, other than: a freestanding project identification/ornamental entrance monument sign, light standards, retaining walls, or flag poles shall be located within the above listed setbacks.

D. PARKING AND LOADING REQUIREMENTS

1. Parking and loading spaces for this development will be as required in the City of Chesterfield Code.

City Council

- 2. No construction related parking shall be permitted within right of way of Old Clarkson Road or on any existing roadways. All construction related parking shall be confined to the development.
- 3. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked on to the pavement causing hazardous roadway and driving conditions.

E. LANDSCAPE AND TREE REQUIREMENTS

- 1. The development shall adhere to the Landscape and Tree Preservation Requirements of the City of Chesterfield Code.
- 2. A thirty (30) foot Landscape Buffer shall be required along the perimeters of the PUD as identified on the Preliminary Plan attached hereto and marked as Attachment "B".
- 3. A minimum of thirty percent (30.0%) Common Open Space shall be required for this PUD.
- 4. A minimum of forty percent (40.0%) tree preservation shall be required for this PUD.

F. SIGN REQUIREMENTS

- 1. Signs shall be permitted in accordance with the regulations of the City of Chesterfield Code.
- 2. Ornamental Entrance Monument construction, if proposed, shall be reviewed by the City of Chesterfield for sight distance considerations prior to installation or construction.

G. LIGHT REQUIREMENTS

Provide a lighting plan and cut sheet in accordance with the City of Chesterfield Code.

H. ARCHITECTURAL

The development shall adhere to the Architectural Review Standards of the City of Chesterfield Code.

I. ACCESS/ACCESS MANAGEMENT

1. Access to the development from Old Clarkson Road shall be restricted to one (1) residential street entrance as shown on the Preliminary Plan and adequate sight distance shall be provided, as directed by the City of Chesterfield.

- 2. If adequate sight distance cannot be provided at the access location(s), acquisition of right-of-way, reconstruction of pavement and other off-site improvements may be required to provide the required sight distance as required by the City of Chesterfield.
- 3. No lot of this development shall be allowed direct access to Old Clarkson Road.
- 4. Adequate corner clearance from Old Clarkson Road to the first driveway shall be provided in accordance with City Code and as directed by the City of Chesterfield.

J. PUBLIC/PRIVATE ROAD IMPROVEMENTS, INCLUDING PEDESTRIAN CIRCULATION

- 1. The streets in this development shall be private and shall remain private forever.
- 2. Improve one-half of Old Clarkson Road to provide for an ultimate 26-foot wide roadway section including curbs, tapers, sidewalk, enclosed stormwater drainage facilities, etc. The section of Old Clarkson Road to be improved includes the half directly adjacent to the entire 15750 Old Clarkson Road frontage. The road improvements shall be completed as part of this development. In lieu of constructing the required improvements, a Special Cash Escrow may be accepted by the City to guarantee future road improvements.
- 3. Provide a 5-foot wide sidewalk, conforming to ADA standards, along Old Clarkson Road. The sidewalk shall provide for future connectivity to adjacent developments and/or roadway projects. The sidewalk may be located within right-of-way or on private property within a 6-foot wide sidewalk access easement dedicated to the City of Chesterfield. The sidewalk shall be constructed as part of this development. In lieu of constructing the required improvements, a Special Cash Escrow may be accepted by the City to guarantee future sidewalk improvements.
- 4. Provide right-of-way dedication, as shown on the Preliminary Plan, such that the right-of-way width of Old Clarkson Road is a minimum of 50 feet wide.
- 5. Any request to install a gate at the entrance to this development must be approved by the City of Chesterfield. Gate installation will not be permitted on public right-of-way.
- 6. All roadway and related improvements shall be constructed prior to issuance of building permits exceeding 60%. Delays due to utility relocation and/or adjustment, for which the developer is responsible

monetarily, shall not constitute a cause to issue permits in excess of 60%.

- 7. Obtain approvals from the City of Chesterfield for locations of proposed curb cuts and access points, areas of new dedication, and roadway improvements.
- 8. Additional right-of-way and road improvements shall be provided, as required by the City of Chesterfield.

K. TRAFFIC STUDY

Provide a traffic study as directed by the City of Chesterfield, St. Louis County Department of Transportation, and/or Missouri Department of Transportation. The scope of the study shall include internal and external circulation and may be limited to site specific impacts, such as the need for additional lanes, entrance configuration, geometrics, sight distance, traffic signal modifications or other improvements required, as long as the density of the proposed development falls within the parameters of the City's traffic model. Should the density be other than the density assumed in the model, regional issues shall be addressed as directed by the City of Chesterfield.

L. POWER OF REVIEW

Either Councilmember of the Ward where a development is proposed or the Mayor may request that the plan for a development be reviewed and approved by the entire City Council. This request must be made no later than seventy-two (72) hours after Planning Commission review. The City Council will then take appropriate action relative to the proposal. The plan for a development, for purposes of this section, may include the site development plan, site development section plan, site development concept plan, landscape plan, lighting plans, architectural elevations, sign package or any amendment thereto.

M. STORM WATER

- 1. The site shall provide for the positive drainage of storm water and it shall be discharged at an adequate natural discharge point or an adequate piped system.
- 2. Storm sewers shall be as approved by the City of Chesterfield and the Metropolitan St. Louis Sewer District.
- 3. Detention/retention, channel protection, and water quality measures are to be provided in each watershed as required by the City of Chesterfield and the Metropolitan St. Louis Sewer District. The storm water management facilities shall be operational prior to paving of any

driveways or parking areas in non-residential developments or issuance of building permits exceeding sixty (60%) of the approved dwelling units in each plat, watershed or phase of residential developments. The location and types of storm water management facilities shall be identified on all Site Development Plans.

- 4. Emergency overflow drainage ways to accommodate runoff from the 100-year storm event shall be provided for all storm sewers, as directed by the City of Chesterfield.
- 5. Offsite storm water shall be picked up and piped to an adequate natural discharge point. Such bypass systems must be adequately designed.
- 6. The lowest opening of all structures shall be set at least two (2) feet higher than the one hundred (100) year high water elevation in detention/retention facilities. All structures shall be set at least 30 feet horizontally from the limits of the one hundred (100) year high water.
- 7. Locations of site features such as lakes and detention ponds must be approved by the City of Chesterfield and the Metropolitan Saint Louis Sewer District.
- 8. Design and construct an outfall to the existing lake as shown on the Preliminary Plan and as approved by the City of Chesterfield and the Metropolitan St. Louis Sewer District.
- 9. The receiving storm system(s) shall be evaluated, including the existing culvert under Old Clarkson Road, to ensure adequate capacity exists and to ensure that the project has no negative impacts to the existing system(s).
- 10. A 404/401 permit may be required from the U.S. Army Corps of Engineers and Missouri Department of Natural Resources. The developer should investigate for and assess the presence of any jurisdictional features on the site, and confirm with these two agencies the applicability of any requirements. If applicable, approvals from these agencies will be required prior to formal MSD plan approval.

N. SANITARY SEWER

- 1. The receiving sanitary sewer system(s) shall be evaluated to ensure adequate capacity exists and to ensure that the project has no negative impacts to the existing system(s).
- 2. Sanitary sewers shall be as approved by the City of Chesterfield and the Metropolitan St. Louis Sewer District.

O. GEOTECHNICAL REPORT

Prior to Site Development Plan approval, the developer shall provide a geotechnical report, prepared by a registered professional engineer licensed to practice in the State of Missouri, as directed by the City of Chesterfield. The report shall verify the suitability of grading and proposed improvements with soil and geologic conditions and address the existence of any potential sinkhole, ponds, dams, septic fields, etc., and recommendations for treatment. A statement of compliance, signed and sealed by the geotechnical engineer preparing the report, shall be included on all Site Development Plans and Improvement Plans.

P. MISCELLANEOUS

- 1. This project is subject to the City of Chesterfield Natural Watercourse Protection requirements. In accordance with the Natural Watercourse Protection requirements, an evaluation of alternatives must be provided for all proposed utility impacts to the Natural Watercourse Protection area.
- 2. Formal project development plans shall be submitted to MSD for review, approval, and permits.
- 3. All utilities will be installed underground.
- 4. Prior to record plat approval, the developer shall cause, at his expense and prior to the recording of any plat, the reestablishment, restoration or appropriate witnessing of all Corners of the United States Public Land Survey located within, or which define or lie upon, the outboundaries of the subject tract in accordance with the Missouri Minimum Standards relating to the preservation and maintenance of the United States Public Land Survey Corners, as necessary.
- 5. The retaining walls along public right-of-way shall be private and remain private forever and shall be located such that it not necessary to support any public improvements.
- 6. Retaining walls that serve multiple properties must be located within common ground or special easements, including but not limited to easements needed for future access, maintenance, and inspection of the walls.
- 7. Prior to final release of subdivision construction deposits, the developer shall provide certification by a registered land surveyor that all monumentation depicted on the record plat has been installed and United States Public Land Survey Corners have not been disturbed during construction activities or that they have been reestablished

and the appropriate documents filed with the Missouri Department of Natural Resources Land Survey Program, as necessary.

II. TIME PERIOD FOR SUBMITTAL OF SITE DEVELOPMENT CONCEPT PLANS AND SITE DEVELOPMENT PLANS

- **A.** The developer shall submit a Site Development Plan within eighteen (18) months of City Council approval of the change of zoning.
- **B.** In lieu of submitting a Site Development Plan, the petitioner may submit a Site Development Concept Plan and Site Development Section Plans for the entire development within eighteen (18) months of the date of approval of the change of zoning by the City.
- **C.** Failure to comply with these submittal requirements will result in the expiration of the change of zoning and will require a new public hearing.
- **D.** A Site Development Plan shall be submitted in accordance with the combined requirements for Site Development Section and Concept Plans. The submission of Amended Site Development Plans by sections of this project to the Planning Commission shall be permitted if this option is utilized.
- **E.** Where due cause is shown by the developer, the City Council may extend the period to submit a Site Development Concept Plan or Site Development Plan for eighteen (18) months.

III. COMMENCEMENT OF CONSTRUCTION

- **A.** Substantial construction shall commence within two (2) years of approval of the Site Development Concept Plan or Site Development Plan, unless otherwise authorized by ordinance.
- **B.** Where due cause is shown by the developer, the City Council may extend the period to commence construction for not more than two (2) additional years.

IV.GENERAL CRITERIA

A. SITE DEVELOPMENT PLAN SUBMITTAL REQUIREMENTS

The Site Development Plan shall include, but not be limited to, the following:

- 1. Location map, north arrow, and plan scale. The scale shall be no greater than one (1) inch equals one hundred (100) feet.
- 2. Outboundary plat and legal description of property.

- 3. Density calculations.
- 4. Parking calculations. Including calculation for all off street parking spaces, required and proposed, and the number, size and location for handicap designed.
- 5. Provide open space percentage for overall development including separate percentage for each lot on the plan.
- 6. Provide Floor Area Ratio (F.A.R.).
- 7. A note indicating all utilities will be installed underground.
- 8. A note indicating signage approval is separate process.
- 9. Depict the location of all buildings, size, including height and distance from adjacent property lines, and proposed use.
- 10. Specific structure and parking setbacks along all roadways and property lines.
- 11. Indicate location of all existing and proposed freestanding monument signs.
- 12. Zoning district lines, subdivision name, lot number, dimensions, and area, and zoning of adjacent parcels where different than site.
- 13. Floodplain boundaries.
- 14. Depict existing and proposed improvements within 150 feet of the site as directed. Improvements include, but are not limited to, roadways, driveways and walkways adjacent to and across the street from the site, significant natural features, such as wooded areas and rock formations, and other karst features that are to remain or be removed.
- 15. Depict all existing and proposed easements and rights-of-way within 150 feet of the site and all existing or proposed off-site easements and rights-of-way required for proposed improvements.
- 16. Indicate the location of the proposed storm sewers, detention basins, sanitary sewers and connection(s) to the existing systems.
- 17. Depict existing and proposed contours at intervals of not more than one (1) foot, and extending 150 feet beyond the limits of the site as directed.
- 18. Address trees and landscaping in accordance with the City of Chesterfield Unified Development Code.

- 19. Comply with all preliminary plat requirements of the City of Chesterfield Subdivision Regulations per the City of Chesterfield Unified Development Code.
- 20. Signed and sealed in conformance with the State of Missouri Department of Economic Development, Division of Professional Registration, Missouri Board for Architects, Professional Engineers and Land Surveyors requirements.
- 21. Provide comments/approvals from the appropriate Fire District, Monarch Levee District, Spirit of St. Louis Airport and the Missouri Department of Transportation, Metropolitan St. Louis Sewer District (MSD), and St. Louis County Department of Highways and Traffic.
- 22. Compliance with Sky Exposure Plane.
- 23. Compliance with the current Metropolitan Sewer District Site Guidance as adopted by the City of Chesterfield.

V. TRUST FUND CONTRIBUTION

A. The developer shall contribute a Traffic Generation Assessment (TGA) to the Chesterfield Village Road Trust Fund (No. 554). This contribution shall not exceed an amount established by multiplying the required parking spaces by the following rate schedule:

Type of Development Single Family Dwelling

Required Contribution \$1,265.39/Parking Space

(Parking Space as required by the site-specific ordinance.)

If types of development proposed differ from those listed, rates shall be provided by the St. Louis County Department of Transportation.

If a portion of the improvements required herein are needed to provide for the safety of the traveling public, their completion as a part of this development is mandatory.

Allowable credits for required roadway improvements will be awarded as directed by the St. Louis County Department of Transportation and the City of Chesterfield. Sidewalk construction and utility relocation, among other items, are not considered allowable credits.

B. As this development is located within a trust fund area established by St. Louis County, any portion of the traffic generation assessment contribution which remains following completion of road improvements required by the development shall be retained in the appropriate trust fund.

- **C.** Traffic Generation Assessment contributions shall be deposited with St. Louis County Department of Transportation. The deposit shall be made prior to the issuance of a Special Use Permit (S.U.P) by St. Louis County Department of Transportation or prior to the issuance of building permits in the case where no Special Use Permit is required. If development phasing is anticipated, the developer shall provide the Traffic Generation Assessment contribution prior to the issuance of building permits for each phase of development. Funds shall be payable to Treasurer, St. Louis County.
- **D.** The amount of all required contributions, if not submitted by January 1, 2020, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accordance with the construction cost index as determined by the St. Louis County Department of Transportation.

VI. RECORDING

Within sixty (60) days of approval of any development plan by the City of Chesterfield, the approved Plan will be recorded with the St. Louis County Recorder of Deeds. Failure to do so will result in the expiration of approval of said plan and require re-approval of a plan by the Planning Commission.

VII.ENFORCEMENT

- **A.** The City of Chesterfield, Missouri will enforce the conditions of this ordinance in accordance with the Plan approved by the City of Chesterfield and the terms of this Attachment A.
- **B.** Failure to comply with any or all the conditions of this ordinance will be adequate cause for revocation of approvals/permits by reviewing Departments and Commissions.
- **C.** Non-compliance with the specific requirements and conditions set forth in this Ordinance and its attached conditions or other Ordinances of the City of Chesterfield shall constitute an ordinance violation, subject, but not limited to, the penalty provisions as set forth in the City of Chesterfield Code.
- **D.** Waiver of Notice of Violation per the City of Chesterfield Code.
- **E.** This document shall be read as a whole and any inconsistency to be integrated to carry out the overall intent of this Attachment A.

From: Jamie Hanagan
Sent: Monday, July 01, 2019 3:35 PM
Andrew Stanislay

To: Andrew Stanislav Subject: 15750 Old Clarkson Road

July 1, 2019 Mr. Stanislav,

Thank you for thoughtfully considering the issues brought forth by the Old Clarkson Road residents regarding 15750 Old Clarkson Road at the meetings on November 14th and June 12th. I am writing today to provide a summary of our issues in hopes that you will make, what we believe, is the right zoning designation for this property. We appreciate the fact that we live in a city that is prosperous and growing; development within our city and our neighborhood is a good indicator of the economic stability in which we are surrounded by. However, the residents along Old Clarkson Road are united in the belief that zoning changes and development along Old Clarkson Road should be in line with the character of the existing nature corridor.

When the developers constructed our homes in the 1970s, they took great care to preserve the mature trees by building homes into the landscape rather than clearing the land. As you saw in numerous photos throughout our presentation, our homes and common areas are surrounded by large, century old trees. These trees contribute to Chesterfield's designation as a Tree City but also stabilize soils, reduce noise and air pollution, reduce energy costs, increase real estate values, and enhance aesthetic appeal, all of which are noted to be valuable in Chesterfield's tree ordinance. Furthermore, land clearing will result in the displacement of numerous wildlife. Wildlife displacement will lead to traffic collisions on Clarkson Road and will burden the forested area with an increase in habitat.

Changing the zoning designation to R2 is inconsistent with the character of the Old Clarkson Road nature corridor. The homes along Old Clarkson Road are constructed within the forest and designated as R1A or NU. Designating the proposed property as E1/2 AC would result in a "win" for all parties involved. E1/2 AC designation would allow the developer to buy the property and build the number of homes he is planning but also will provide the protections necessary to preserve the character of the Old Clarkson Road neighborhood. The rules and regulations set forth by the E series of zoning designations address the character of the neighborhood by requiring enhancement of the residential development using well-buffèred, well-landscaped neighborhoods. R2 zoning designations do not require such enhancements

In regards to granting the developer a PUD, we believe this would result in very little change to the developer's original site plan, which is more consistent with R2 zoning. Please carefully consider granting the developer only E1/2AC zoning, as this zoning designation is a good compromise for all parties involved. Finally, the city of Chesterfield should require the developer to obtain performance bond protection. Mr. Vadivelu has a history of filing for bankruptcy, owns a very small company, and is a new face to development in the city of Chesterfield. We urge the city to request performance bond protection to shield neighborhood property values in the event the project is not completed.

Please reach out with any questions. Thank you, in advance, for your careful consideration.

Jamie Hanagan

President

Old Clarkson Forest Homeowner's Association

217-827-2967

From: Greg Miller
Sent: Wednesday, July 03, 2019 10:34 AM
To: Andrew Stanislay

15750 Old Clarkson

Andrew,

Subject:

I'm writing to you to express my concern about the zoning of the parcel at 15750 Old Clarkson. This area of chesterfield is defined by the large, mature trees and forest. It is the main reason many of us live in this area.

I urge the zoning commission to leave the zoning of the parcel unchanged. Development of the parcel would greatly diminish this forested corridor.

Regards,

Greg Miller 1931 Rustic Oak Road

Sent from my iPhone

AZACK CONSTRUCTION COMPANY LLC

11607 Francetta Lane St. Louis, MO. 63138 314-520-6844 Fax 636-489-4733

07/02/19

Mr. Andrew Stanislav City of Chesterfield, Missouri 690 Chesterfield Parkway West Chesterfield, Missouri 63017-0760

RECEIVED

JUL - 3 2019

City of Chesterfield

Department of Public Sendors

RE: P.Z. 11-2018 15750 Old Clarkson Road (NU to E-1/2 AC)
P.Z. 07-2019 15750 Old Clarkson Road (E- 1/2 AC to PUD)
Reply to June 14 City Review letter: Items 1-5

Dear Mr. Stanislav:

Please accept this correspondence as adhering to your request for a written response to how items 1-5 of the aforementioned review letter were addressed. I have responded according to your numbering system.

- 1. Tree Preservation and Mature Trees Loomis and Associates have addressed this item in a separate letter.
- 2. The two modifications items mentioned here to the UDC requirement have been accommodated and don't need those modifications anymore.
- 3. As for maintaining the Community Character of the neighborhood, we are preserving the existing Pond as is as well as maintaining the Blue Line Creek on the south and west of our property. We are maintaining as much of the existing trees as possible throughout the property as possible.
- 4. Lot 5 house has been strategically placed away from the existing subdivision houses as requested by the neighbors. Besides there is a 30' Landscape Buffer with existing woodland left in place.
- 5. Hydrology and Stormwater We have done a Hydrology Study showing very little addition of additional water flow added to the creek from our development. We had no intention of doing anything to the existing Pond on our site. City is requesting us to add an outlet structure to the pond. We are in agreement with this requirement as it will allow us to control the discharge and discharge point of any unusual or heavy stormwater event. We will view this as an attempt to help the existing stream's hydraulics and to protect as much as possible the adjacent home owners.

Kumara S. Vadivelu



loomisAssociateslandscapeArchitects/planners 750 Spirit 40 Park Drive Chesterfield, MO 63005-1194 (636) 519-8668

e-mail: bbage@loomis-associates.com

City of Chesterfield Attn: Andrew Stanislav 690 Chesterfield Parkway West Chesterfield, Missouri 63017

RE: P.Z. 11-2018 15750 Old Clarkson Road P.Z, 07-2019 15750 Old Clarkson Road RECEIVED

JUL - 2 2019

City of Chesterfield
Department of Public Services

Dear Mr. Stanislav,

In your June 14, 2019 correspondence related to the 15750 Old Clarkson Road project (P.Z. 11-2018 and P.Z. 07-2019), comment #1 requests a verification of the condition ratings and the depiction of the existing pond size/location on the TSD.

I have reviewed my findings and ratings and stand by the information found on the Tree Stand Delineation (TSD). Without getting into specific of individual trees, most of the trees in this woodland do not exhibit characteristics that merit a rating above average due my observation of the amount of deadwood and visible damage found in trees in this woodland.

The second part of the comment #1 regarding the existing pond size will be more clearly delineated on the revised TSD drawing.

Respectfully,

LOOMIS ASSOCIATES, INC.

Brian Bage, ISA

Certified Arborist MW-5033A

CLARKSON HILLS RESERVE Zoning Narrative Statement

a. General Description of the Proposal:

Arch City Group is proposing to develop a 4.8 Acres of property along Old Clarkson Road and is requesting an E-1/2 AC PUD zoning in order to permit the development. The project consists of 5 large, wooded, new building sites around the existing 5600 sf house in the middle. Arch City Group will be building High End Homes 3000 to 4500 sf size with 3 car garage with many upgrades as standard in the base. Arch City Group has made every effort to preserve the many existing natural resources located on site. This project meets and exceeds all of the relevant PUD requirements.

b. List of requested uses:

Arch City Group is requesting single family detached residential use for the entire site. The site will also contain common ground and the streets inside the property will be private streets which will be designed and constructed in accordance with the City's guidelines for residential construction.

c. Proposed Land Uses and development standards

Arch City Group is requesting a single family detached residential use for the site. The development standards are noted throughout this application and identified on the plan. The proposed density is above ½ acre. The plan includes 6 lots on a 4.8 acres.

The maximum building height will be a maximum of forty five feet which is consistent with the E-1/2 AC district.

The minimum front yard setback will be 20'. The minimum rear yard setback will be 15' and the minimum side yard setback will be 15'.

d. Exceptions or variations from the requirement of the Zoning Ordinance:

Pursuant to the City's Zoning Code, the purpose of the PUD is to encourage flexibility to the density requirements and development standards of the zoning ordinance. In the calculation of the lot size the Landscape buffer and the roadway easement is all included to achieve the minimum ½ acre lots size. This allows for the inclusion of more common ground and preserve the existing creek untouched on the south and west side of the property.

e. Phases of construction

Arch City Group anticipates the entire site will be developed in one phase.

f. Landscaping and Tree Preservation:

Arch City Group is proposing to preserve over 40% of the existing tree canopy which is quite a bit more than the minimum 30% required by the City. The Preservation of these trees is an important characteristic of the overall community and is also identified as a key design feature for the PUD in the City's Zoning Code.

In addition to the tree preservation, Arch City Group will provide extensive landscaping throughout the community.

g. Character of and rationale for the PUD:

The City's zoning code states that the purpose of the PUD District is to encourage flexibility to the density requirements and development standards of the zoning ordinance that will result in exceptional design, character, and quality of new development; to promote the most appropriate use of the land; to facilitate the provision of streets and utilities; and to preserve the natural and scenic features and open space.

First, Arch City Group wanted a project to compliment the existing communities in the area. After careful study of the surrounding area, Arch City Group determined that a R-2 or E-1/2 AC Estate zoning would be most appropriate for the site, since it is surrounded by R-2, R1A, R-6 and R6A. While the E-1/2 AC Estate zoning does not yield as many homes, it is important to preserve the natural characteristics of the Old Clarkson Corridor. The City's Zoning Code identifies compatibility with surrounding land uses and the Comprehensive Plan as a "general consideration" for the PUD.

Site contains many natural features and Arch City Group has sought to preserve many of these features. The natural features will also enhance the desirability of the location which contributes to the sustainability of the community. The environmental benefits of preserving these natural resources are numerous. The natural vegetation will cleanse and filter storm water and recharge the groundwater. In addition to the many environmental benefits, these features serve to provide residents with an identity to their community which further promotes sustainability. The preservation of these natural features achieves another design feature of the PUD identified in the City's Zoning Code.

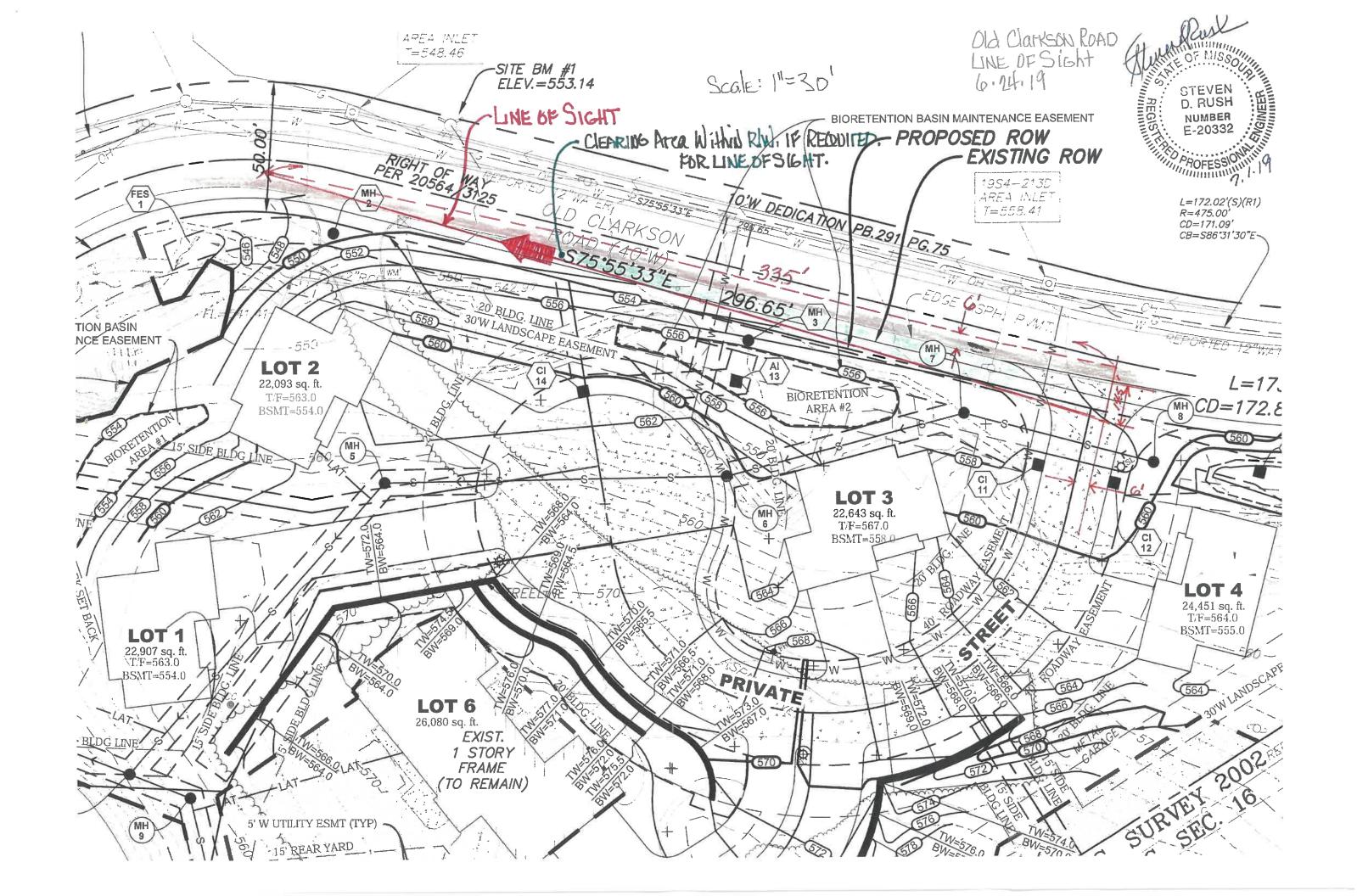
As always Arch City Group wants to design a subdivision with lots of the upgraded architectural features as standard in its design.

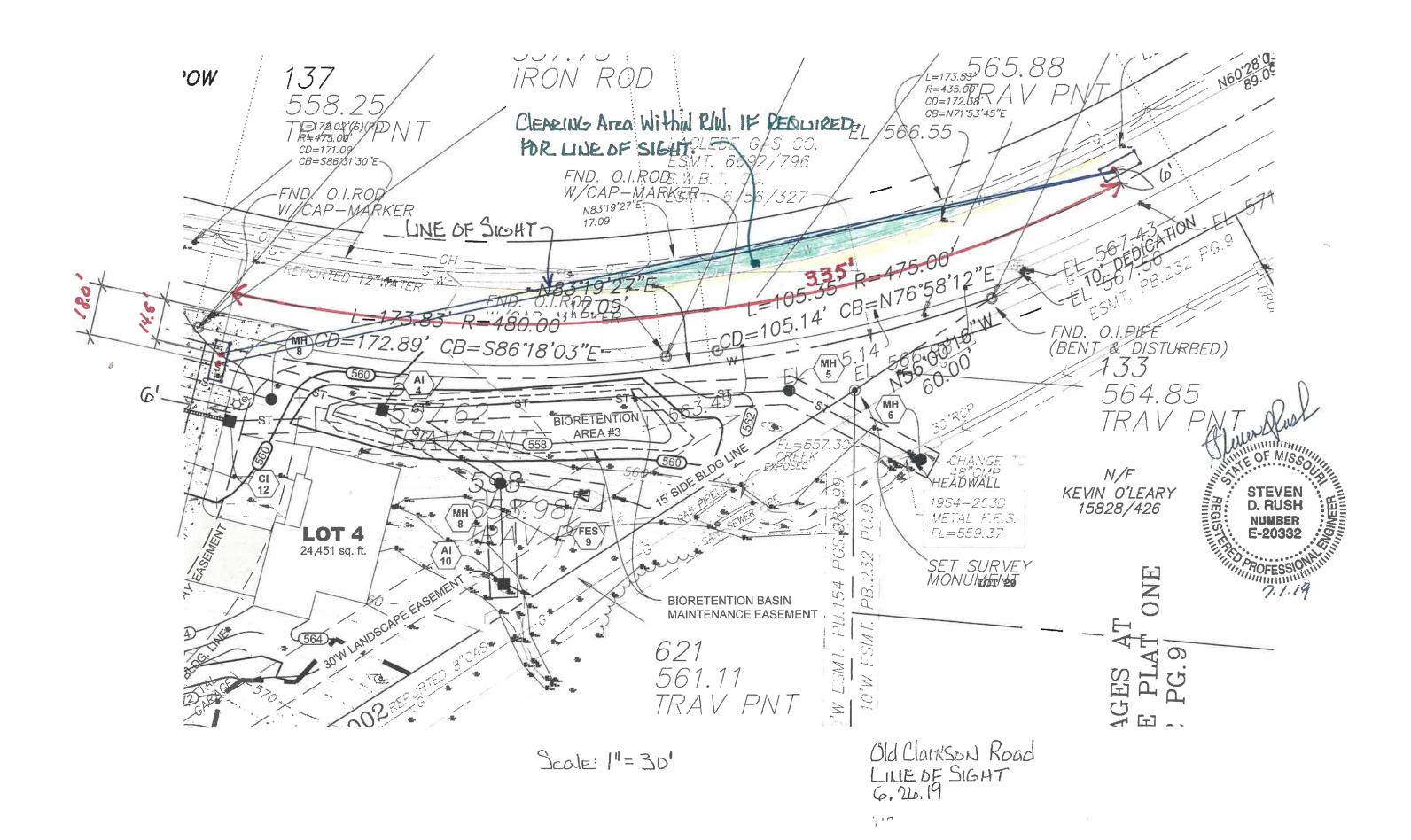
The PUD is necessary in order to allow for flexibility in some of the design standards in E-1/2 AC Estate zoning category while preserving many of the natural resources on the site. Most notably, to achieve the minimum ½ acre lot size, Arch City Group would like to include the Landscape Buffer and Streets rights a way areas to be included in the lot size area calculation.

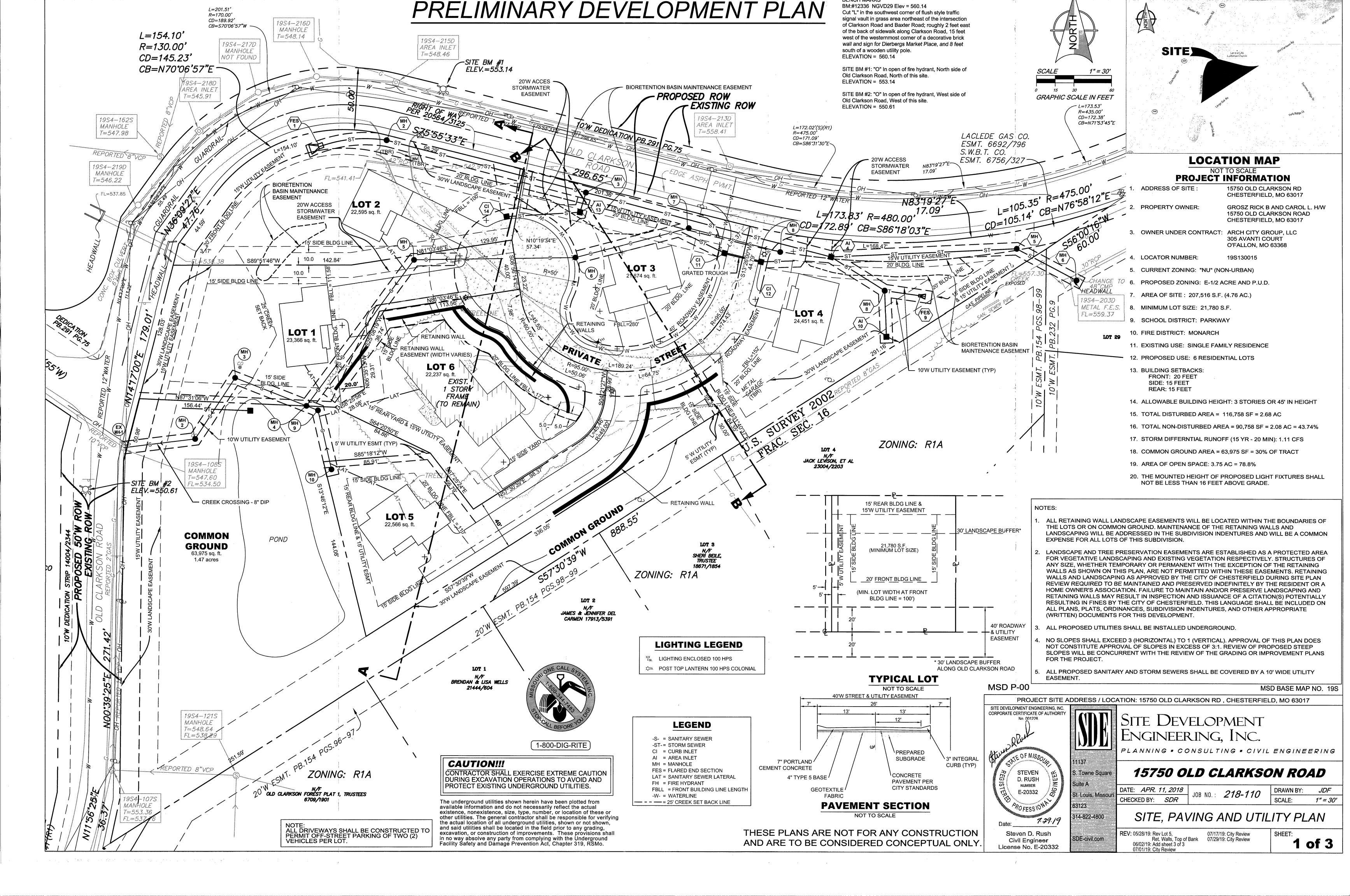
Based on the site plan, Arch City Group anticipates that nearly 43% of the site will be left untouched in it's natural state. These natural areas will not be graded and the natural slopes and vegetation will remain. The PUD section of the City's Zoning Code states that maintaining existing topography, soils and vegetation is a design feature for the PUD.

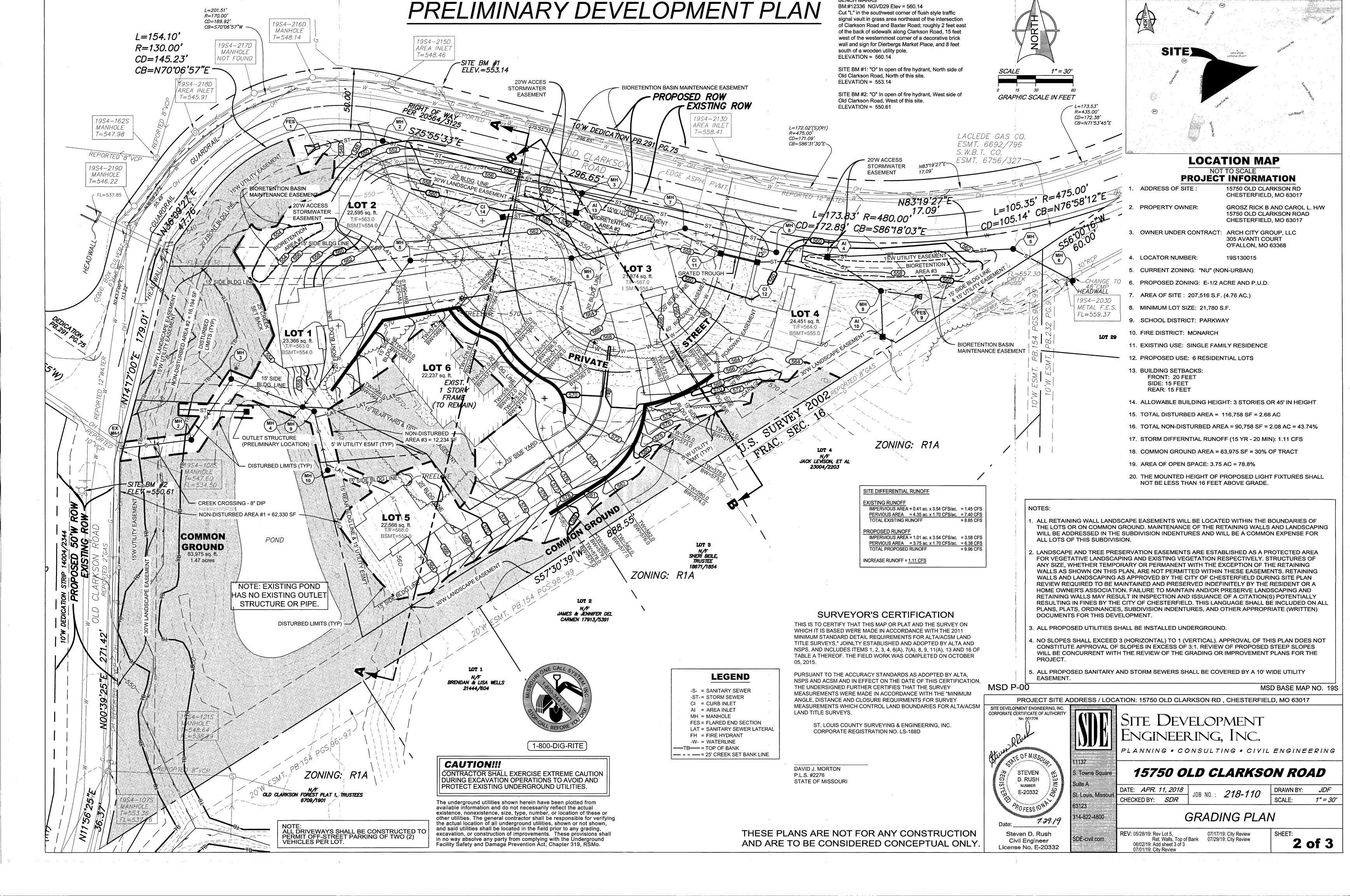
The design and construction of homes with an architectural vernacular that exceeds the typical building designs is also noted as a design feature in the PUD section of the City's Zoning Code. This design feature is achieved by offering Arch City Group's standard design which in itself is a high-end home with all usual upgrades as standard. Three Car Garages, Stone and Brick elements and low maintenance exteriors.

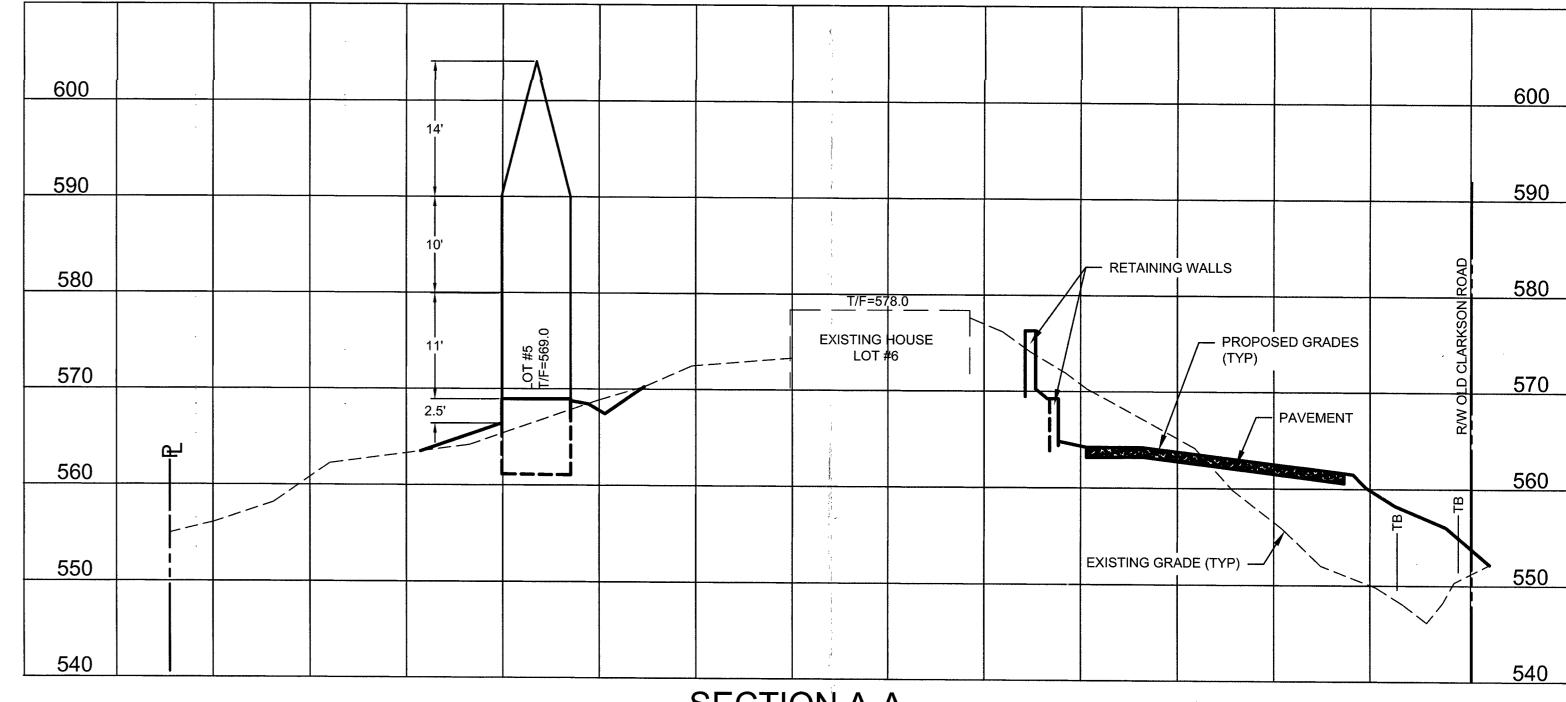
The City's Zoning Code identifies environmentally conscious building techniques as a design feature of the PUD. Arch City Group offers several sustainable and environmentally conscious features as standard in its design like energy efficient appliances, low-e windows, high efficiency HVAC systems etc.





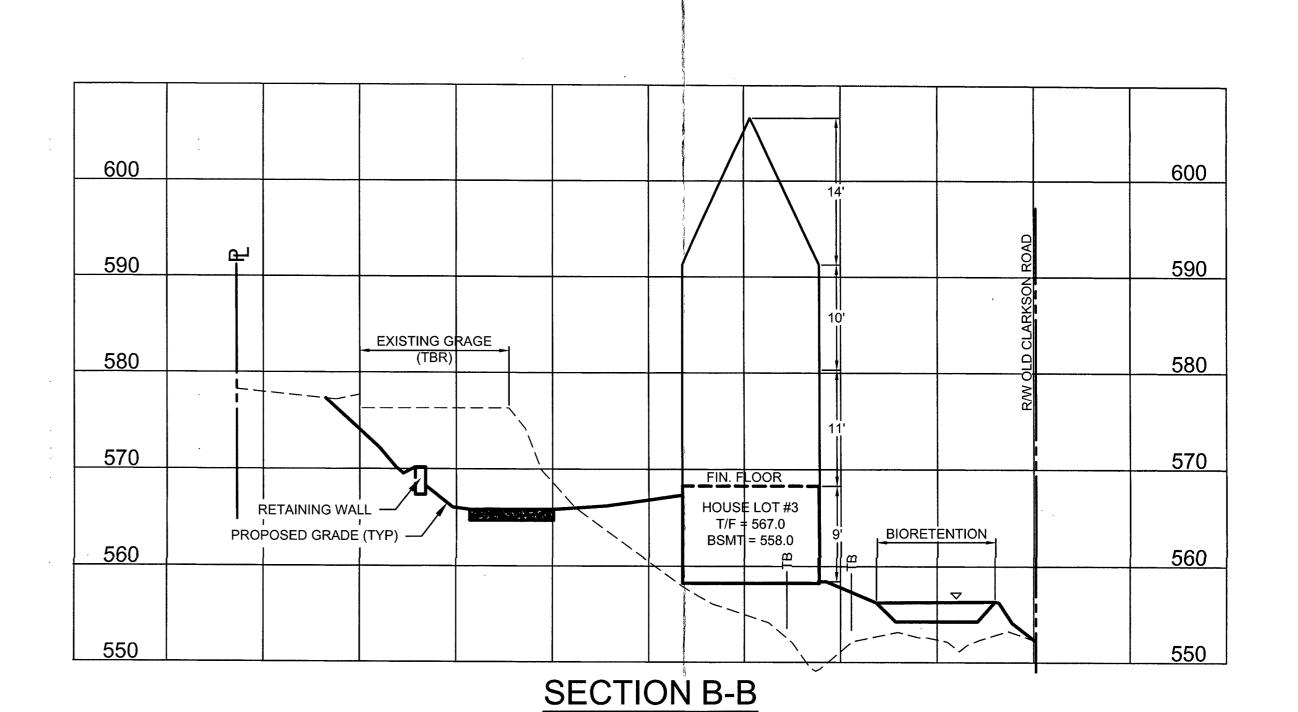






SECTION A-A

HOR.: 1" = 30' VER.: 1" = 10'



HOR.: 1" = 30' VER.: 1" = 10'

MSD BASE MAP NO. 19S

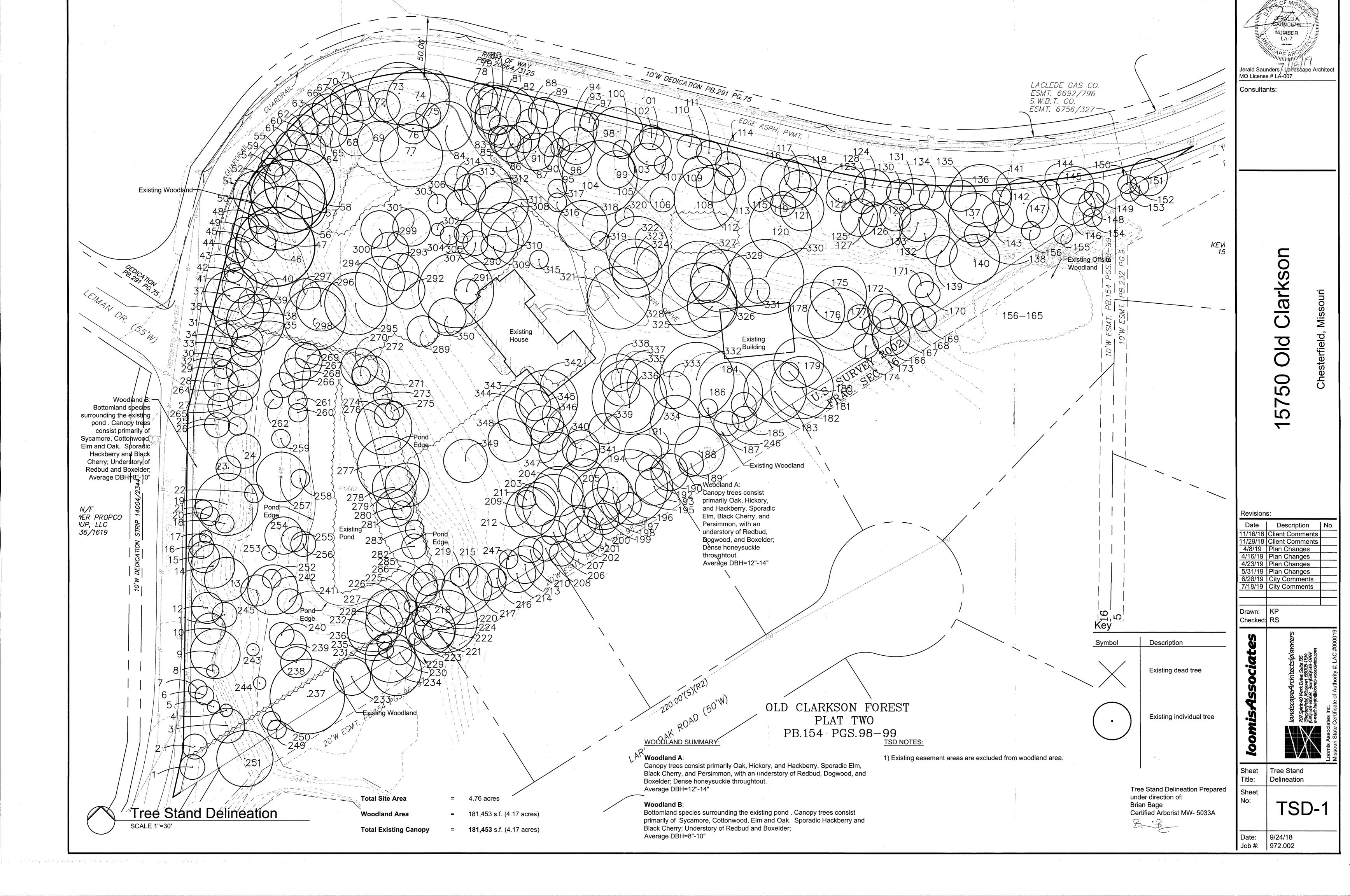


314-822-4800 CROSS SECTION SHEET 7.39.19 Steven D. Rush Civil Engineer License No. E-20332

SDE-civil.com

REV: 07/01/19: City Review 07/17/19: City Review 07/29/19: City Review

3 of 3



	/entory	1			
<u>ID</u>	Tree Name	<u>DBH</u> 6	Canopy Diam.	Condition Rating	Comment
2	Redbud Hickory	10	20	3	
3	Boxelder	10	30	2	х3
<u>4</u> 5	Hickory Hackberry	5 7	10	3 2	
6	Hackberry	8	15	2	
7	Hackberry	8	15	2	
<u>8</u> 9	Hackberry Hickory	7 18	10 40	3	
10	Hickory	12	25	2	
11	Oak	24	35	1	power lines
12	Hackberry	12	25	2	
13 14	Oak Black Cherry	28 14	35 35	2	power lines
15	Hickory	12	25	2	
16	Hickory	8	20	2	
17 18	Hickory Elm	<u>6</u> 8	10 15	2	,
19	White Oak	28	50	2	
20	Hickory	6	15	2	
21	Redbud	5 24	50	3	
22 23	Red Oak Boxelder	10	15 20	2	
24	Hackberry	14	30	2	
25	Hackberry	8	15	2	
26 27	Hackberry Elm	10 12	20	1	power lines
28	Hickory	18	30	2	power lines
29	Elm	7	15	2	power lines
30	Hickory	8	15	2	power lines
31 32	Dogwood Hickory	5 10	20 30	2 2	
33	Hickory	8	25	2	
34	Hickory	8	25	2	
35 36	White Oak White Oak	28 24	50 40	2 2	powerlines
37	White Oak	24	40	2	power lines power lines
38	Hackberry	8	20	2	
39 40	Elm Hackberry	10 10	30	2	
41	White Oak	18	30	1	
42	Boxelder	8	15	1	power lines
43	White Oak	12	15	1	power lines
44 45	Red Oak White Oak	12 16	20 30	2	power lines
46	White Oak	24	50	2 2 3	
47	Hickory	8	10	3	
48 49	Hickory Hickory	<u>8</u>	20	2 2	
49 50	Red Oak	22	50	2	
51	Hickory	16	35	2	power lines
52	Oak	18	40	1	
53 54	Elm	8	20	2	
55	Hackberry	6	20	2	
56	Red Oak	1	40	3	
57 58	White Oak White Oak	22 22	60	3	
59	Hickory	8	20	3	
60	Red Oak	10	25	2	
61 62	Boxelder Boxelder	<u>8</u> 8	20	2 2	
63	Ash	10	15	1	power lines
64	Ash	10	15	1	power lines
65 66	Hickory Boxelder	<u>8</u> 8	25 15	3	power lines
67	Hickory	8	25	3	POWEL III IES
68	Hickory	12	30	3	
69 70	Hickory	12 5	30 15	3 2	
71	Hackberry Ash	10	15	1	
72	Hickory	8	25	2	
73	White Oak	24	50	2	
74 75	White Oak Elm	20 10	50 20	2	
76	White Oak	12	25	2	
77	White Oak	18	50	3	
78 79	Bald Cypress Hickory	18 10	25 20	3 2	
80	Ash	16	40	2	
81	Red Oak	5	15	3	
82 83	Hickory Hackberry	30 8	50 15	2	
84	White Oak	16	40	2	
85	Hickory	8	25	2	
86	Ash White Oak	16	30	2	
87 88	White Oak Hickory	16 16	25 25	2 2	
89	Hickory	16	25	2	
90	Hickory	8	20	2	
91	Hackberry	12	30	3	
92 93	Elm	14	30	2	
94	Hickory	18	35	3	
95	Elm	8	15	2	
96 97	Hickory Hackberry	10 7	25 15	3 2	
	Hickory	18	40	3	
98	inonory	10	70		

<u>ID</u>	Tree Name	DBH	Canopy Diam.	Condition Rating	<u>Comment</u>
100 101	Boxelder Hickory	6 10	30	3	
102	Hickory	8	20	2	
103	Hickory	10	30	2	
104	White Oak	28	60	2	
105	White Oak	28	-	0	dead
106	Hackberry	5	20	3	
107	Hickory	5	15	2	- · · · · ·
108	White Oak	24	50	2	
109 110	Hackberry Boxelder	12 8	25 20	2 2	
111	Boxelder	<u> </u>	20	2	
112	Elm	10	30	2	
113	Hickory	12	25	2	
114	Oak	8	20	2	
115	Hickory	8	20	3	
116	Ash	24	40	2	
117	Hackberry	12	30	2	
118	Boxelder	12	30	3	
119	Sugar Maple White Oak	6 18	20 50	2	
121	White Oak	24	35	2	severe lean
122	Sugar Maple	8	20	2	severe lean
123	Hackberry	12	30	2	
124	Hickory	12	30	2	
125	Boxelder	6	15	2	
126	Hackberry	16	35	2	
127	Hackberry	10	20	2	
128	Hackberry	12	20	2	
129	Hickory	10	25	3	
130	White Oak	8	20	2	
131	Elm	8	25	2	
132	Hackberry	18	40	2	x2
133	Elm Pod Ook	8	30	3	
134 135	Red Oak	6 10	20	2	
135	Hickory White Oak	26	50		
137	White Oak	22	40	2 2	
138	White Oak	22	20	1	
139	Hackberry	10	25	2	
140	White Oak	18	40	2	
141	Elm	6	15	2	
142	Red Oak	28	40	2	heavy prunir
143	Sycamore	6	25	3	
144	Elm	10	15	2	ļ
145	Oak	30	30	2	heavy prunir
146 147	Oak Black Cherry	14 10	30	2	· · · · · · · · · · · · · · · · · · ·
148	Persimmon	6	20	3	
149	Oak	6	20	2	
150	Redbud	8	15	2	
151	Boxelder	16	30	2	
152	Pine	5	15	2	offsite
153	Pine	5	15	2	offsite
154	Pine	5	15	2	offsite
155 156	Pine Boxelder	<u>8</u> 5	15 15	2	offsite offsite
157	Black Cherry	10	20	2	offsite
158	Black Cherry	10	20	2	offsite
159	Elm	6	15	2	offsite
160	White Oak	24	50	2	offsite
161	White Oak	18	40	2	offsite
162	Red Oak	10	25	2	offsite
163	White Oak	20	50	3	offsite
164	White Oak	12	30	2	offsite
165	White Oak	16	40	2	offsite
166 167	White Oak	20 8	40	2 2	
168	Hackberry Elm	8 6	25	2	
169	Hickory	12	20	2	
170	Hackberry	12	20	2	
171	Hickory	5	. 20	3	
172	Hackberry	12	25	2	lean
173	Hickory	6	15	2	
174	Hackberry	8	20	2	
175	White Oak	22	40	2	
176	Red Oak	28	45	1	
177	Hickory	10	20	3	
178 179	Hickory White Oak	1 <u>4</u> 20	50 45	3	
180	Hackberry	8	15	2	
181	White Oak	24	50	3	
182	White Oak	24	50	3	
183	White Oak	24	50	0	dead
184	Elm	10	15	2	
185	Hackberry	5	12	2	
186	White Oak	22	50	3	
187	Hickory	6	15	2	
188	White Oak	24	45	3	
189	Hickory	18	40	3	
400	Hickory	16	35	3	, -
190	White Oak	24	40	0	dead
191	Hickory	6	20	2	
191 192		4.0			
191 192 193	Hackberry	12	30	3	
191 192 193 194	Hackberry White Oak	12	30	2	•
191 192 193 194 195	Hackberry White Oak White Oak	12 24	30 60	2 2	•
191 192 193 194	Hackberry White Oak	12	30	2 2 2 3	•

	Tree Name	<u>DBH</u>	Diam.	Condition Rating	Comment
200	Hickory	12	25	3	
201	Hickory	14	30	3	····
202	Hickory	12	30	3	
203	White Oak White Oak	22 14	50	2	
205	White Oak	18	40	2	· · · · · · · · · · · · · · · · · · ·
206	Hickory	12	20	2	
207	Hickory	12	20	2	1.
208	Hickory	6	20	3	
209	White Oak	24	35	3	
210	Hackberry	10	20	3	
211	White Oak	8	15	3	
212	White Oak	30	40	1	
213	White Oak	20	30	2	
214	White Oak	24	30	2	
215	White Oak	24	40	2	
216	Hickory	8	15	2	
217	White Oak	16	30	3	
218 219	Sycamore Black Cherry	24 8	15	3	
220	Cottonwood	28	50	3	•
221	Hickory	12	25	2	offsite
222	Cottonwood	24	40	2	Onone
223	Elm	12	15	1	
224	Black Cherry	10	15	2	
225	Elm	10	10	1	
226	Cottonwood	22	. 30	2	
227	Sycamore	22	35	3	
228	Elm	18	30	2	
229	Elm	5	10	2	
230	White Oak	18	-	0	
231	White Oak	20	40	2	
232	Cottonwood	24	40	3	
233	Hackberry	14	30	3	
234	White Oak	24	40	2	offsite
235	Elm	5	12	3	
236	Elm	5	12		
237 238	Red Oak Hackberry	30 14	60 25	3 2	
239	Hickory	10	25	2	
240	Hickory	8	20	3	
241	Hackberry	14	20	1	
242	Hackberry	24	40	3	
243	Red Oak	4	10	2	
244	Hickory	6	10	2	
245	Hackberry	14	25	2	
246	Black Walnut	8	20	2	
247	Hackberry	10	15	2	
248					
249	1 1 7		1		PP 16
250	Hickory	6	15 45	2	offsite
251 252	Hackberry Hackberry	28 8	15	2	· · · · · · · · · · · · · · · · · · ·
253	Hackberry	6	12	2	A.L. 2 Par
254	Hickory	10	30	3	
255	Hickory	8	20	3	
256	Hickory	7	20	3	
257	Cottonwood	26	40	2	
258	Hickory	7	15	2	
259	Elm	6	15	2 3	
	Hickory	8	1 45	1 _ 1	
260	riioloty		15		
261	Sycamore	8	15	3	
261 262	†				
261 262 263	Sycamore Hickory	8	15 15	3	
261 262 263 264	Sycamore Hickory Hickory	8 8 12	15 15 25	3 3 3	
261 262 263 264 265	Sycamore Hickory Hickory Hickory	8 8 12 12	15 15 25 20	3 3 3 2	
261 262 263 264 265 266	Sycamore Hickory Hickory Hickory Hickory	8 8 12 12 8	15 15 25 20 20	3 3 2 3	
261 262 263 264 265 266 267	Sycamore Hickory Hickory Hickory Hickory Elm	8 8 12 12 8 12	15 15 25 20 20 30	3 3 2 3 2	
261 262 263 264 265 266 267 268	Sycamore Hickory Hickory Hickory Hickory Elm Hickory	8 8 12 12 8 12	15 15 25 20 20 30 25	3 3 2 3 2 2	
261 262 263 264 265 266 267 268 269	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood	8 8 12 12 8 12 10 10	15 15 25 20 20 30 25 20	3 3 2 3 2 2 2 2	
261 262 263 264 265 266 267 268 269 270	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore	8 8 12 12 8 12 10 10	15 15 25 20 20 30 25 20 30	3 3 2 3 2 2 2 2 2	
261 262 263 264 265 266 267 268 269	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood	8 8 12 12 8 12 10 10	15 15 25 20 20 30 25 20	3 3 2 3 2 2 2 2 3 3	
261 262 263 264 265 266 267 268 269 270 271	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry	8 8 12 12 8 12 10 10 12 12	15 15 25 20 20 30 25 20 30 30	3 3 2 3 2 2 2 2 3 3 3 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm	8 8 12 12 8 12 10 10 12 12 8	15 15 25 20 20 30 25 20 30 30 15	3 3 2 3 2 2 2 2 3 3 3 2 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272 273	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory	8 8 12 12 8 12 10 10 12 12 8 8	15 15 25 20 20 30 25 20 30 30 15 15	3 3 2 3 2 2 2 2 3 3 3 2 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276	Sycamore Hickory Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory Hickory White Oak	8 8 12 12 8 12 10 10 12 12 8 8 8 14 14 28	15 15 25 20 20 30 25 20 30 30 15 15 15 45	3 3 2 3 2 2 2 2 3 3 3 2 2 2 2 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276	Sycamore Hickory Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory White Oak Red Oak	8 8 12 12 8 12 10 10 12 12 8 8 14 14 28 36	15 15 25 20 20 30 25 20 30 30 15 15 45 50	3 3 2 3 2 2 2 2 3 3 3 2 2 2 2 2 2 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277	Sycamore Hickory Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory Hickory White Oak Red Oak White Oak	8 8 12 12 8 12 10 10 12 12 8 8 14 14 28 36 24	15 15 25 20 20 30 25 20 30 30 15 15 45 50 35	3 3 2 3 2 2 2 2 3 3 2 2 2 2 2 2 2 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory Hickory White Oak White Oak White Oak	8 8 12 12 8 12 10 10 10 12 12 8 8 14 14 28 36 24 24	15 15 25 20 30 30 30 15 15 15 20 15 45 50 35	3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 3 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280	Sycamore Hickory Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak White Oak White Oak Red Oak	8 8 12 12 8 12 10 10 12 12 8 8 14 14 28 36 24 24	15 15 25 20 20 30 25 20 30 30 15 15 45 50 35 30	3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak Hackberry	8 8 12 12 8 12 10 10 10 12 12 8 8 14 14 28 36 24 24 12	15 15 25 20 30 30 30 15 15 45 50 35 30 15	3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 3 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Hickory Hickory Hickory Hickory Hickory	8 8 12 12 8 12 10 10 12 12 8 8 14 14 28 36 24 24 12 12	15 15 25 20 20 30 25 20 30 30 15 15 45 50 35 30 35 30 15	3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 3 3 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak Hackberry	8 8 12 12 8 12 10 10 10 12 12 8 8 14 14 28 36 24 24 12	15 15 25 20 30 30 30 15 15 45 50 35 30 15	3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 3 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak White Oak Red Oak Hackberry Hickory Hickory	8 8 12 12 8 12 10 10 12 12 12 8 8 14 14 28 36 24 24 12 12 12 5	15 15 25 20 20 30 25 20 30 30 15 15 45 50 35 30 35 30 15	3 3 2 3 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Hickory Hickory Hickory Hickory	8 8 12 12 8 12 10 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5	15 15 25 20 30 30 30 15 15 20 15 45 50 35 30 15 20	3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 2 3 3 2 2 2 2 3 3 2 2 3 2 2 3 3 2 2 3 3 2 2 3 3 3 3 2 2 3 3 3 3 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Hickory Hackberry Hickory	8 8 12 12 8 12 10 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5	15 15 25 20 20 30 25 20 30 30 15 15 45 50 35 30 15 45 50 35 30 15 20 15 45 50 35 30 35 30 35 30 35 35 36 37 37 38 38 38 38 38 38 38 38 38 38	3 3 2 3 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 3 3 3 3 2 2 2 2 2 2 2 2 3 3 3 3 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 289	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Spruce	8 8 12 12 8 12 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5	15 15 25 20 30 30 30 30 30 15 15 45 50 35 35 30 15 20 15 45 50 35 35 35 30 15 20 25 20 20 20 20 20 20 20 20 20 20 20 20 20	3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 3 3 3 2 2 2 3 3 3 3 2 2 2 3 3 3 2 2 2 3 3 3 3 3 3 3 3 3 2 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 289 290	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Red Oak Hackberry Hickory Hickory Hickory	8 8 12 12 8 10 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5 14 12 28	15 15 25 20 30 30 30 30 15 15 20 15 45 50 35 30 15 20 15 45 50 35 35 30 15 20 25 20 30 30 30 45 50 60 60 60 60 60 60 60 60 60 6	3 3 2 3 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 3 3 3 2 2 2 2 3 3 3 2 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 289	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Spruce	8 8 12 12 8 12 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5	15 15 25 20 30 30 30 30 30 15 15 45 50 35 35 30 15 20 15 45 50 35 35 35 30 15 20 25 20 20 20 20 20 20 20 20 20 20 20 20 20	3 3 2 3 2 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 289 290 291	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory	8 8 12 12 8 12 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5	15 15 25 20 30 25 20 30 30 15 15 20 15 45 50 35 30 15 45 50 35 30 15 45 50 35 30 25 20 20 20 20 20 20 20 20 20 20	3 3 2 3 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 2 3 3 3 2 2 2 2 3 3 3 2 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 289 290 291 292	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak Hackberry Hickory Hackberry Spruce Red Oak Hickory White Oak	8 8 12 12 8 10 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5 12 12 28 10 10	15 15 25 20 30 30 30 15 15 20 15 45 50 35 30 15 45 50 35 30 15 20 15 45 50 35 30 30 30 30 30 30 30 30 30 30	3 3 2 3 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 289 290 291 292 293	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak Hackberry Hickory Hackberry Spruce Red Oak Hickory White Oak White Oak	8 8 12 12 8 12 10 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 12 12 5	15 15 25 20 30 30 30 30 15 15 20 15 45 50 35 30 15 45 50 35 30 15 45 50 35 30 30 30 30 30 30 30 30 30 30	3 3 2 3 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 3 3 3 2 2 2 2 3 3 3 2 2 2 2 3 3 3 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 289 290 291 292 293 294	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak White Oak Red Oak Hackberry Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak Hackberry Hickory Hickory Hickory Hickory Hickory Hickory Hickory Hickory Hickory Hackberry Red Oak Hickory Hackberry Spruce Red Oak Hickory White Oak Red Oak Hickory	8 8 12 12 8 10 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 5 14 12 12 12 28 10 10 10 10 10 10 10 10 10 10 10 10 10	15 15 25 20 30 30 30 15 15 20 15 45 50 35 30 15 20 15 45 50 35 30 15 20 30 30 45 50 30 30 45 30 45 30 45 30 45 30 45 30 45 45 45 45 45 45 45 45 45 45	3 3 3 2 3 2 2 2 2 3 3 2 2 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 3 2 2 3 3 3 3 2 2 3 3 3 3 2 2 3 3 3 3 2 2 3 3 3 3 2 2 3 3 3 3 2 2 3 3 3 3 3 2 2 3 3 3 3 3 3 2 2 3 3 3 3 3 3 2 2 3	
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 289 290 291 292 293 295	Sycamore Hickory Hickory Hickory Elm Hickory Cottonwood Sycamore Hackberry Elm Hickory Hickory Hickory White Oak Red Oak White Oak Red Oak White Oak Hackberry Hickory Hickory White Oak Red Oak White Oak Red Oak Hackberry Hickory Hackberry Hackberry Hackberry Hackberry Spruce Red Oak Hickory White Oak Red Oak Red Oak	8 8 12 12 8 12 10 10 10 12 12 8 8 14 14 28 36 24 24 12 12 12 12 12 12 12 12 12 12 12 12 12	15 15 25 20 30 30 30 30 15 15 20 15 45 50 35 30 15 20 15 45 50 35 30 35 30 30 30 30 30 30 30 30 30 30	3 3 2 3 2 2 2 2 2 2 2 2 2 3 3 2 2 2 2 3 3 3 2 2 2 2 3 3 3 2 2 2 2 3 3 3 2 2 2 2 3 3 3 3 2 2 2 2 3 3 3 3 3 3 2 2 2 2 3	

				Condition	
ID	Tro a Nin	DBH	Canopy	,	J.
	Tree Name		Diam.	Rating	Comment
300	White Oak	14	30	2	
301	Red Oak	24	30	2	
302	Dogwood	5	10	2	
303	Hickory	8	15	2	
304	Hickory	6	15	+ 3	
305	White Oak	20	15	1	
306	Red Oak	16	25	3	
307	White Oak	8	20	2	
308	Red Oak	28	50	2	
309	Hickory	8	20	3	
310	White Oak	16	40	: 3	
311	White Oak	16	40	2	
312	White Oak	18	40	3	
313	White Oak	14	25	1	
314	White Oak	10	20	2	
315	Cedar	8	15	2	
316	Hickory	8	15	2	
317	Black Cherry	8	15	3	
318	Elm	12	40	2	
319	Elm	6	15	2	
320	Hackberry	6	15	3	
321	Red Oak	30	50	2	
322	White Oak	22	50	3	
323	White Oak	22	40	3	
324	White Oak	16	40	1	
325	White Oak	14	40	2	
326	White Oak	30	60	13	
327	Red Oak	24	50	1	
328	White Oak	12	30	2	
329	White Oak	18	50	3	
330	Red Oak	30	60	1	
331	Elm	8	20	1	Fallen on bldg
332	White Oak	24	60	3	4,011 011 210 5
333	Red Oak	12	30	1	
334	White Oak	14	40	3	
335	White Oak	20	60	3	
336	White Oak	16	40	2	
337	White Oak	14	30	2	
338	White Oak	12	30	2	
339	Hickory	12	25	3	
340	Red Oak	14	30	3	
341	White Oak	10	25	12	
342	White Oak	24	50	2	
342 343		10	25	2	
344	Hickory		<u> </u>	3	
	White Oak	18	50		
345	White Oak	12	30	3	
346	White Oak	14	30	2	
347	White Oak	14	30 .	2	
348	Ash	16	35 35	3	
349	White Oak	16			

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	10	2	
	15	2	
	15	1 3	
)	15	1	
)	25	3	
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	40	2	
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	50	3	
2 2 6	40	3	
 6	40	1	
4	40	2	
0	60	13	
	50	1	
4 2	30	2	
8	50	3	
0	60	1	
	20	1	Fallen on bldg
4	60	3	
<u>.</u> 2	30	1	
3 4 2 4	40	3	
	60	3	
0 6 4 2 2 4 0 8 2 4 4 6 6	40	2	
4	30	2	
2	30	2	
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6	35	2	
6	35	3	
0	30	2	<u> </u>

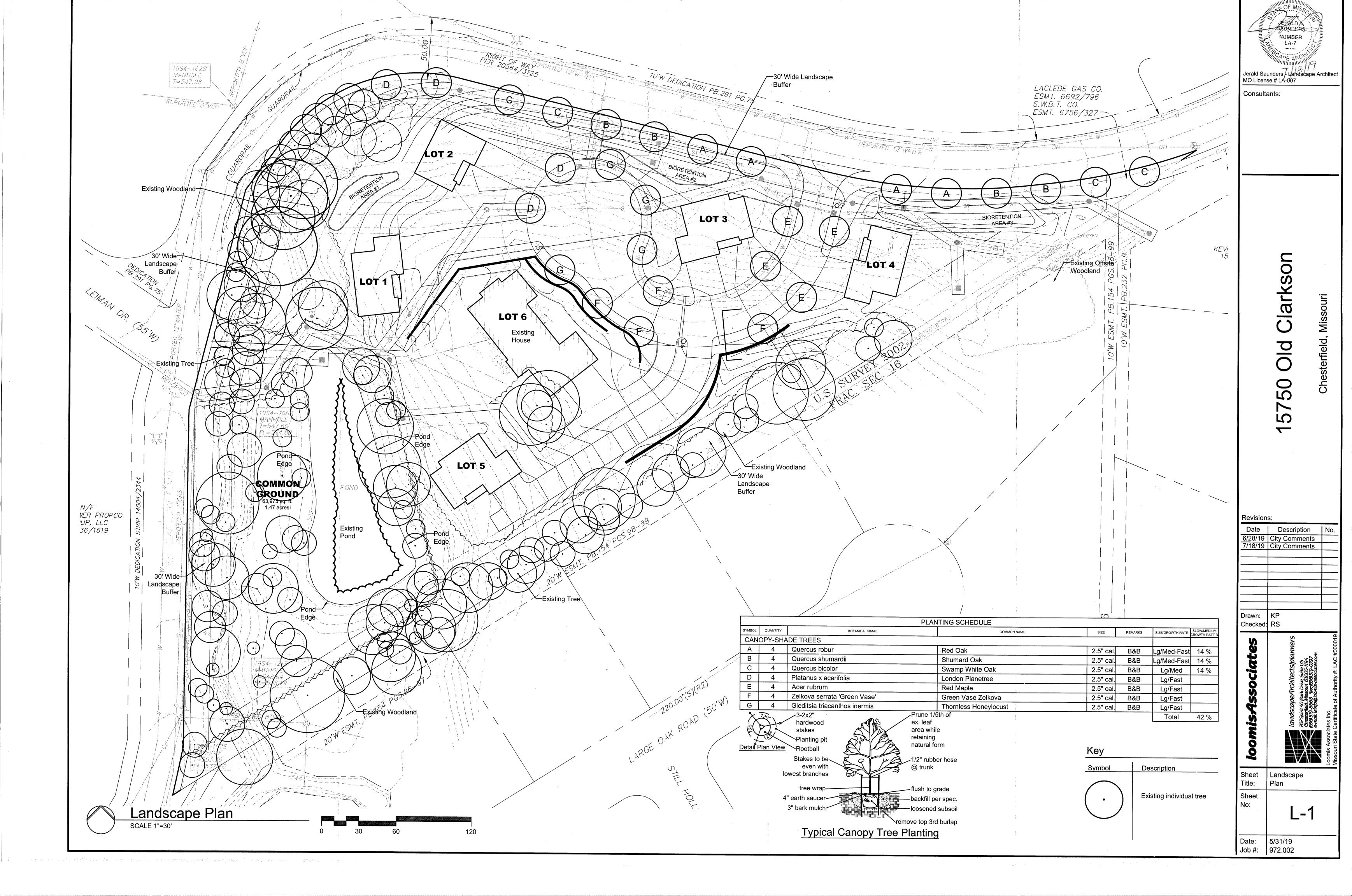
Tree Condition Ratin
1 = In Decline
2 = Poor Quality

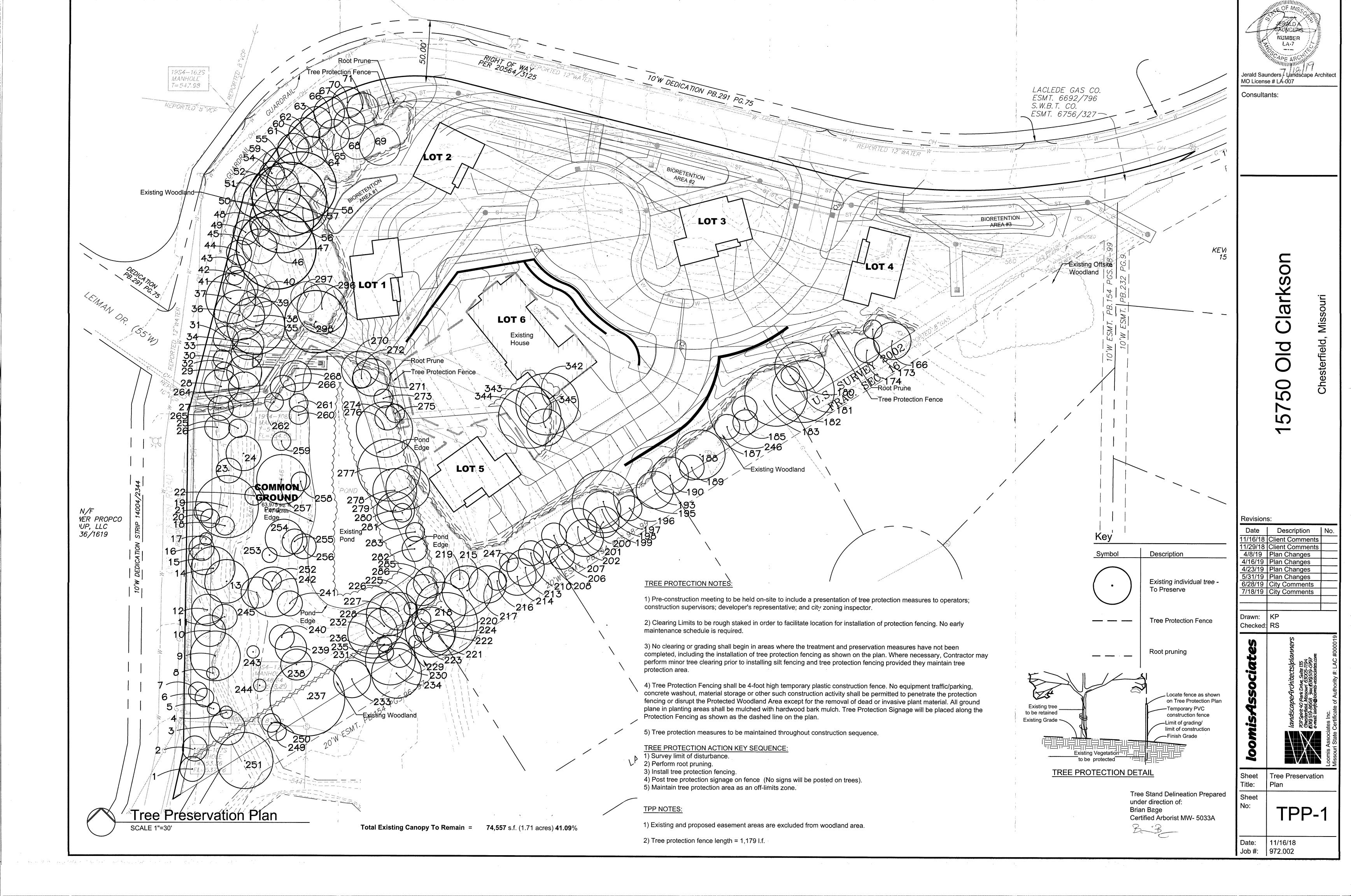
3 = Average Quality
4 = Good Quality
5 = Excellent Quality

Tree Stand Delineation Prepared under direction of:
Brian Bage
Certified Arborist MW- 5033A

15750 Revisions: Date Description No. 11/16/18 Client Comments
11/29/18 Client Comments
11/29/18 Client Comments
4/8/19 Plan Changes
4/16/19 Plan Changes
4/23/19 Plan Changes
5/31/19 Plan Changes
6/28/19 City Comments
7/18/19 City Comments Drawn: KP Checked: RS Sheet Title: Tree Stand Delineation Sheet No: TSD-2

Date: 9/17/18 Job #: 972.002





Tree Inv	ventory				
<u>ID</u>	Tree Name	DBH	Canopy Diam.	Condition Rating	Comment
1	Redbud	6	20	3	
2	Hickory	10	20	3	
3	Boxelder	10	30	2 3	x3
4	Hickory	5	10		
5	Hackberry	· · · · · · · · · · · · · · · · · · ·	10	2	
6	Hackberry	8	15	2	
7	Hackberry	8	15	2	
8	Hackberry	7	10	2	
9	Hickory	18	40	3	
10	Hickory	12	25	2	
11	Oak	24	35	1	power lines
12	Hackberry	12	25	2	
13	Oak	28	35	1	power lines
14	Black Cherry	14	35	2	
15	Hickory	12	25	2	
16	Hickory	8	20	2	
17	Hickory	6	10	1	
18	Elm	8	15	2	
19	White Oak	28	50	2	
20	Hickory	6	15	2	
21	Redbud	5	50	2	
22	Red Oak	24	15	3 2	
23	Boxelder	10	20	2	
24	Hackberry	14	30	2	
25	Hackberry	8	15		
26	Hackberry	10	20	2 2	
27	Elm	12	20	1	power lines
28	Hickory	18	30	2	power lines
29	Elm	7	15		power lines
30	Hickory	8	15	2 2	power lines
31	Dogwood	5	20	2	
32	Hickory	10	30	2	
33	Hickory	8	25	2	
34	Hickory	8	25	2 2	
35	White Oak	28	50	2	
36	White Oak	24	40	2	power lines
37	White Oak	24	40	2	power lines
38	Hackberry	8	20	2	power intes
39	Elm	10	30		
40	Hackberry	10	30	2	
41	White Oak	18	30	1	
42	Boxelder	8	15	1	novembro
43	White Oak			1	power lines
44		12	15		power lines
	Red Oak	12	20	2	power lines
45 46	White Oak	16	30	2 2	
47	White Oak	24	50		
<u>47</u> 48	Hickory	8 8	10	3	
49	Hickory		15	2	
·	Hickory	6	20	2	
50	Red Oak	22	50	2	
51	Hickory	16	35	2	power lines
52	Oak	18	40	1	
54	Elm	8	20	2	
55	Hackberry	6	20	2	
56	Red Oak	1	40	3	
57	White Oak	22	60		
58	White Oak	22	60	3	
59	Hickory	8	20	3	
60	Red Oak	10	25	2	
61	Boxelder	8	20	2	
62	Boxelder	8	20	2	
63	Ash	10	15	1	power lines
64	Ash	10	15	1	power lines
65	Hickory	8	25	3	
66	Boxelder	8	15	1	power lines
67	Hickory	8	25	3	
68	Hickory	12	30	3	
69	Hickory	12	30	3	
70	Hackberry	5	15	2	
71	Ash	10	15	1	

				Condition	
ID 100	Tree Name	<u>DBH</u>	Diam.	Rating	Comment
166	White Oak	20	40	2	
173	Hickory	6	15	2	
174 170	Hackberry	8	20	2	
179	White Oak	20	45	3	
180 181	Hackberry	8	15	2	
182	White Oak	24	50	3	
184	White Oak Elm	24 10	50 15	3	
185	Hackberry	5	12	2 2	
188	White Oak	24	45	3	
189	Hickory	18	40	3	
190	Hickory	16	35	3	
192	Hickory	6	20	2	
193	Hackberry	12	30	3	
196	Hackberry	8	20	2	
198	White Oak	18	50	3	
199	Hickory	12	30	2	
200	Hickory	12	25	3	
201	Hickory	14	30	3	
202	Hickory	12	30	3	
206	Hickory	12	20	2	
207	Hickory	12	20	2	
208	Hickory	6	20	3	
210	Hackberry	10	20	3	
213	White Oak	20	30	2	
214	White Oak	24	30	2	
215	White Oak	24	40	2	
216	Hickory	8	15	2	
217	White Oak	16	30	3	
218	Sycamore	24	40	3	
219	Black Cherry	8	15	2	
220	Cottonwood	28	50	3	
221_	Hickory	12	25	2	offsite
222	Cottonwood	24	40 '	2	
223	Elm	12	15	1	
224	Black Cherry	10	15	2	
225 226	Elm	10	10	1	
220 227	Cottonwood	22	30	2	
228	Sycamore Elm	22 18	35	3 2	
229	Elm	5	10	2	
230	White Oak	<u>5</u> 18	10	0	
231	White Oak	20	40		
232	Cottonwood	24	40	3	
233	Hackberry	14	30	3	
234	White Oak	24	40	3 2	offsite
235	Elm	5	12	3	
236	Elm	5	12	3	W V
237	Red Oak	30	60	3	
238	Hackberry	14	25	2	
239	Hickory	10	25	2 3	
240	Hickory	8	20		
241	Hackberry	14	20	1	
242	Hackberry	24	40	3	
243	Red Oak	4	10	2	
244	Hickory	6	10	2	
245	Hackberry	14	25	2 2	
247	Hackberry	10	15	2	
248					
249	Ī				

<u>ID</u>	Tree Name	<u>DBH</u>	Canopy Diam.	Condition Rating	Comment
251	Hackberry	28	45	2	
252	Hackberry	8	15	2	
253	Hackberry	6	12	2	
254	Hickory	10	30	3	
255	Hickory	8	20	3	
256	Hickory	7	20	3	
257	Cottonwood	26	40	2	
258	Hickory	7	15	2	
259	Elm	6	15	2	
260	Hickory	8	15	3	
261	Sycamore	8	15	3	
262	Hickory	8	15	3	
264	Hickory	12	25	3	
265	Hickory	12	20	2	
266	Hickory	8	20	3	
268	Hickory	10	25	2	
270	Sycamore	12	30	3	
271	Hackberry	12	30	3	
272	Elm	8	15	2	
273	Hickory	8	15	2	
274	Hickory	14	20	2	
275	Hickory	14	15	2	
276	White Oak	28	45	3	
277	Red Oak	36	50	2	
278	White Oak	24	35	2	*
279	White Oak	24	35	3	
280	Red Oak	12	30	3	
281	Hackberry	12	15	2	
282	Hickory	12	20	2	
283	Hickory	5	15	3	
285	Hackberry	14	25	2	
286	Hackberry	12	25	2	· · · · · · · · · · · · · · · · · · ·
296	Red Oak	18	40	3	
297	Hickory	18	25	3	
298	White Oak	10	50	3	severe lear
342	White Oak	24	50	2	
343	Hickory	10	25	2	
344	White Oak	18	50	3	
345	White Oak	12	30	3	

Jerald Saunders / Landscape Architect MO License # LA-007 Consultants:

Revisions:

Date Description No.

11/16/18 Client Comments

11/29/18 Client Comments

4/8/19 Plan Changes

4/16/19 Plan Changes

4/23/19 Plan Changes

5/31/19 Plan Changes

6/28/19 City Comments

7/18/19 City Comments

Drawn: KP Checked: RS

Sheet Title: Tree Preservation Sheet No:

Date: 9/17/18 Job #: 972.002

Tree Condition Rating:
1 = In Decline
2 = Poor Quality
3 = Average Quality
4 = Good Quality
5 = Excellent Quality

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Brian Bage
Certified Arborist MW- 5033A